

**Draft Agenda as of 03/14/14**

**2014 Midwest and Central States Air Quality Workshop**  
**April 22 – 24, 2014**  
**St. Louis, MO**

**Purpose**

The Workshop will bring together air quality researchers who have a focus on the central and midwestern portions of the U.S., technical state agency staff, and federal regulatory agency staff to share current research, methodologies, and projects. Session topics include emissions, data analyses, and modeling.

**Meeting Attire:**

Jackets and ties are not allowed; Hawaiian shirts are optional.

**Day 1, Tuesday, April 22, 2014**

- 12:30 Welcome and Introductions – Rob Kaleel (LADCO), Theresa Pella (CenSARA), and Kirk Baker (US EPA)
- 01:00 Overview of Central and Midwestern States Air Quality Issues: Design Values, Nonattainment, etc. - Theresa Pella (CenSARA) and Donna Kenski (LADCO)

*(breaks as needed)*

**Ammonia**

- 01:30 Elevated Winter Nitrate in the Upper Midwest - Dr. Charles Stanier (Univ. of Iowa)
- 02:00 Process Based Ammonia Emissions Estimates - Margaret McCourtney (Minnesota)
- 02:30 Modeling and Observational Constraints of NH<sub>3</sub> Emissions and Sources of Nitrogen Deposition - Daven Henze (University of Colorado at Boulder)
- 03:00 Ammonia Monitoring Network – Chris Lehmann (Illinois State Water Survey)

**Oil & Gas**

- 03:30 EPA Oil & Gas Emissions Calculator Tool – Moving from v1 to v2 - Roy Huntley & Jennifer Snyder (US EPA)
- 04:00 Satellite Signatures of Trace Gases Associated with US Oil and Gas Extraction FY 14 ACAST Project – Debra Kollonige (Univ of MD) and Brad Pierce (NOAA)
- 04:30 Status of Methane Emission Studies Across the Natural Gas System - Andrew Williams (Env. Defense Fund)
- 05:00 Wrap up for the day

## **Day 2, Wednesday, April 23, 2014**

*(breaks as needed)*

### **Emissions Modeling**

- 08:00 Relationships and Trends among Satellite NO<sub>2</sub> Column and NO<sub>x</sub> Emissions - David Streets (Argonne National Lab) ACAST Project
- 08:30 What can year-long hourly measurements tell us about emissions? - Benjamin de Foy (Saint Louis University)
- 09:00 Coordinating Research Council Project: State-Supported MOVES Input Improvements – John Koupal (Eastern Research Group)
- 09:30 ERTAC EGU Model and Compare/Contrast to IPM –Mark Janssen (LADCO)
- 09:50 Characterizing Growth in the Power Sector for Regional Air Quality Modeling - Bob Lopez (Wisconsin)
- 10:15 Residential Fuel Combustion Inventory and Projections – Melissa Kuskie (Minnesota)
- 10:45 Compare/Contrast of MEGAN and BEIS - Kirk Baker (US EPA) and Alex Cohan (LADCO)

### **Meteorological and Air Quality Modeling**

- 11:15 CMAQ and CAMx Overview and Recent Updates – Chris Emery (Environ)
- 11:45 WRF Meteorological Model Evaluation – David Brown (State of Iowa)

### **12:15 – Working Lunch (box lunches provided)**

- 12:45 IWAQM3: Single Source Long Range Transport and Near-Field Secondary Impacts – Bret Anderson (USFS) and Kirk Baker (US EPA)

### **Transport/Source Apportionment**

- 01:15 2011 Based Source Contribution and Sensitivity Modeling (Kirk Baker, US EPA)
- 01:45 Quantifying Source Contributions to O<sub>3</sub> and PM<sub>2.5</sub> Pollution Episodes across the Eastern US ACAST Project - Tracey Holloway (Univ. of Wisconsin -Madison)
- 02:15 SEMAP 2018 Ozone and PM<sub>2.5</sub> Projections and Ozone Transport Modeling – Jim Boylan (Georgia DEP)
- 02:45 LADCO's 2018 Source Apportionment Modeling – Alex Cohan (LADCO)

### **Exceptional Events, Fires, and background**

- 03:15 Quantifying Regional Background Ozone for Houston, TX – Jim Smith (TCEQ)
- 03:45 Flint Hills Exceptional Event Technical Demonstration - Kenneth Craig and Lyle Chinkin (Sonoma Tech on behalf of Kansas)
- 04:15 Impact of Western State Fires on the Central and Midwest US - Tom Moore (WRAP)
- 04:40 DEASCO<sub>3</sub> Project and WRAP Tools- Purpose and Usefulness for the Central and Midwestern States - Tom Moore (WRAP)
- 05:00 Wrap up for the day

**Day 3, Thursday, April 24, 2014**

*(breaks as needed)*

**Single Source Modeling for Secondary Pollutants** (near field/long range)

08:00 LADCO Approach -Alex Cohan (LADCO)

08:20 Development and Application of PM<sub>2.5</sub> Interpollutant Trading Ratios to Account for PM<sub>2.5</sub> Secondary Formation in Georgia – Jim Boylan (Georgia DEP)

**1-hr SO<sub>2</sub> NAAQS Panel**

08:45 Designations, Permitting, SIP Work (Panel Members include : Emily Weber (Missouri), Jeff Sprague (Illinois), Ken Ritter (Indiana), John Summerhays (US EPA, Region 5), Erik Snyder (US EPA, Region 6)

**State Technical Work Highlights– (5-10 min each)**

09:45 LADCO States (IL, IN, MI, MN, OH, WI) and CenSARA States (AR, IA, KS, LA, MO, NE, OK, TX)

11:45 Meeting summary and group discussion on workshop reactions and next steps

**Adjourn workshop (12:30)**

*\*Optional St. Louis Cardinals ballpark tour following workshop*